

Reduction of Trinitrobenzene to Amines with Molecular Hydrogen over Chrysocolla-like Catalysts

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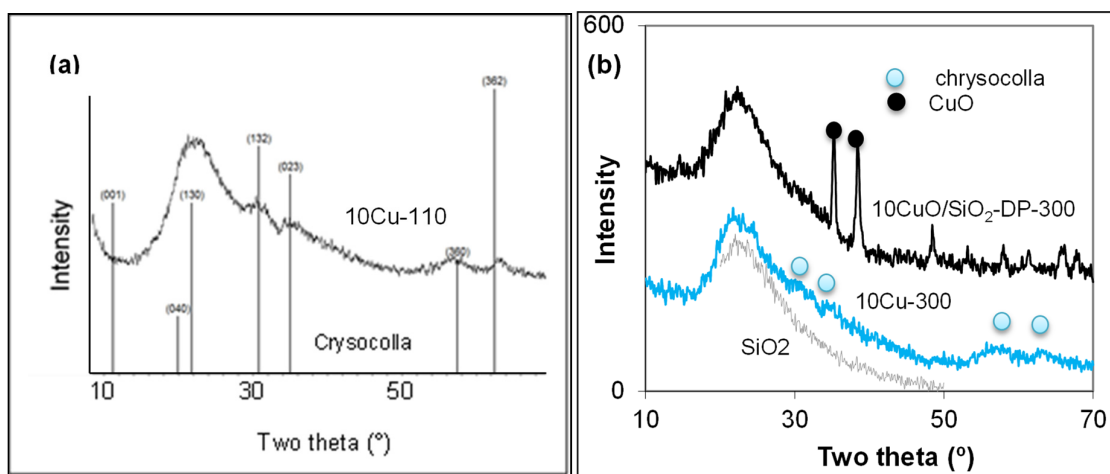


Figure S1. XRD patterns of the initial dried material (a) and the materials calcined at 300 °C (b).

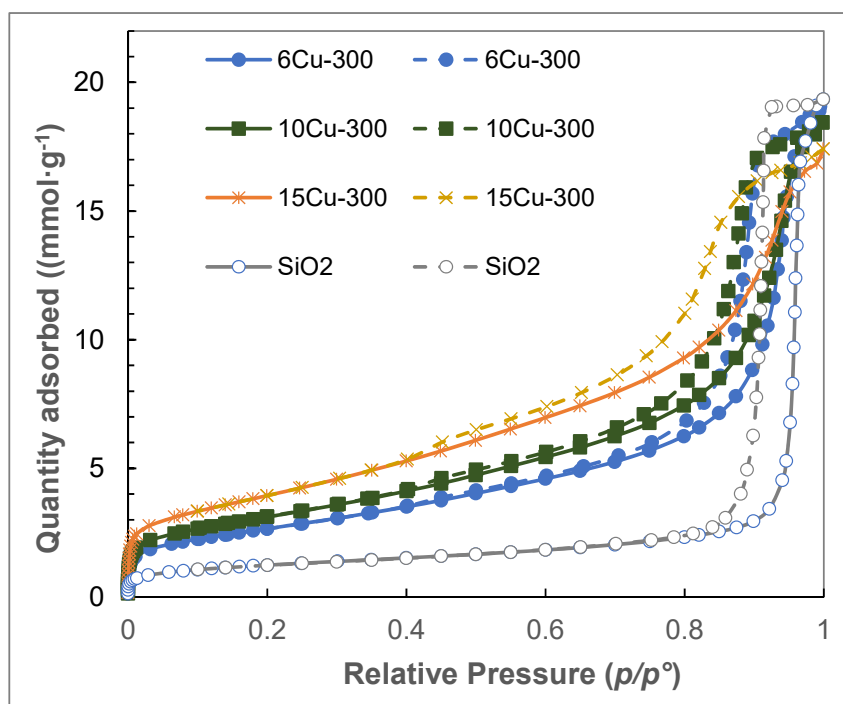
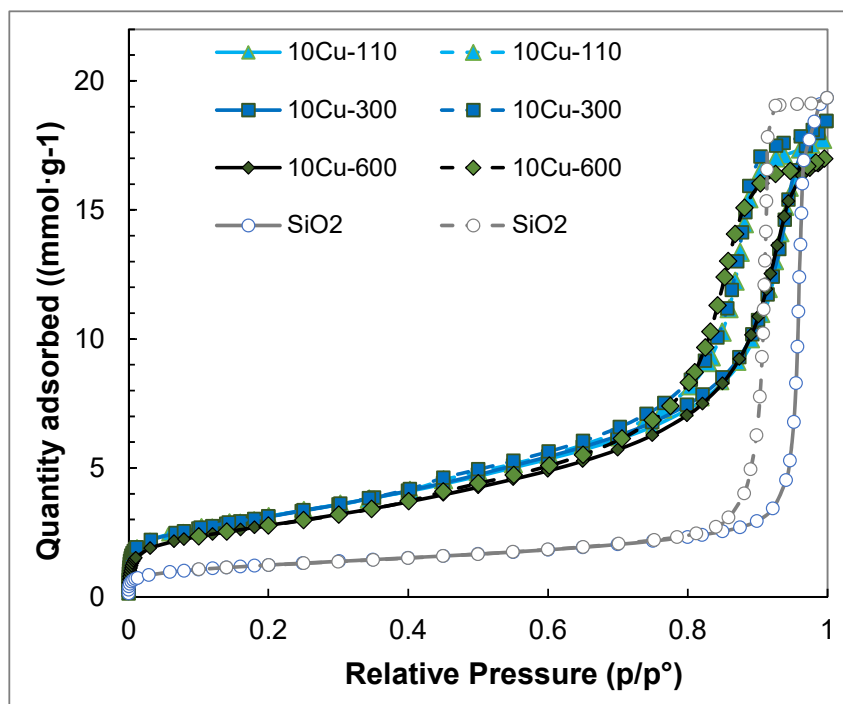


Figure S2. N₂ adsorption-desorption isotherms

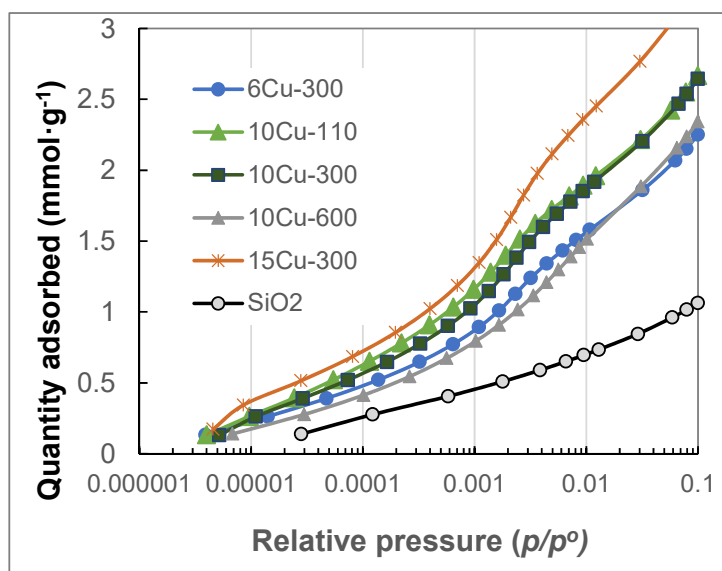


Figure S3. N₂ adsorption isotherms of high resolution

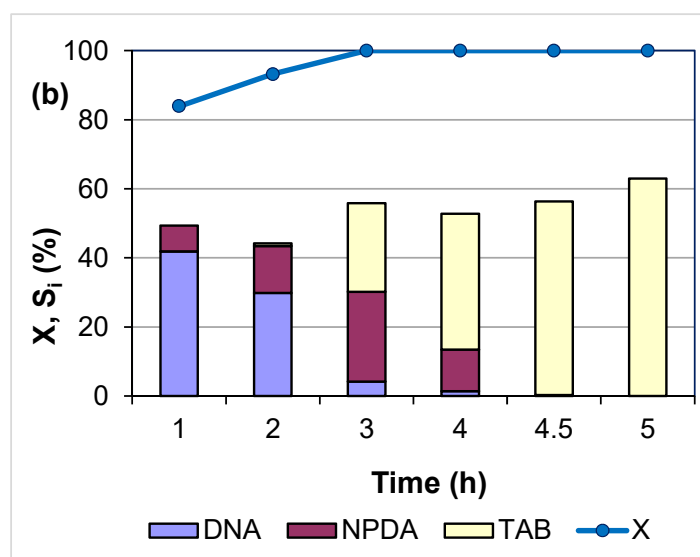
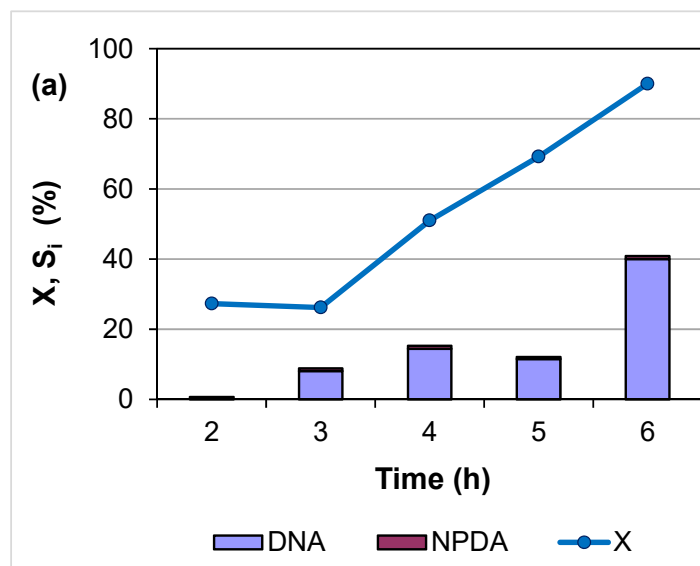


Figure S4. Dependence of the TNB conversion (X) and selectivity to individual amines (S_i) versus reaction time for the samples with a Cu loading 6.0 wt.% dried (a) and calcined at 300 °C (b).

Samples prepared on the commercial silica with $S_{BET} = 300 \text{ m}^2\text{g}^{-1}$

Table S1. Results of recycling tests of synthesized material (calcined 3Cu-300).

Catalyst	Cycle	Reaction time, h	TNB conversion, %	Selectivity to DNA, %	Selectivity to NPDA, %	Selectivity to TAB, %
3Cu-300	1 st	3	95.5	17.5	0	0
		4	99.3	18.8	0	0
	2 nd	3	99.8	14.5	0	0
		4	99.9	12.1	0.14	0
	3 rd	3	99.9	11.7	0.16	0
		4	99.9	11.3	0.80	0